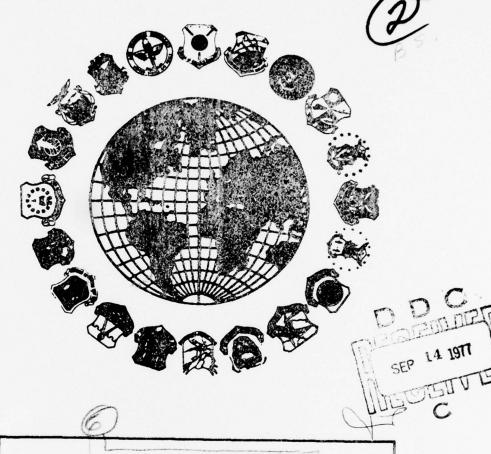


OCCUPATIONAL SURVEY REPORT.

AD A O 47547



ELECTRONIC PRINCIPLES
ELECTRONIC WARFARE COUNTERMEASURES
CAREER LADDER
AFSC 276X1

AFPT- 90-276-222 (

29 JULN 1977 /

USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Electronic Warfare Countermeasures Specialty, AFSC 276X1.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Mr. Reginald G. Nolte. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT ELECTRONIC WARFARE COUNTERMEASURES CAREER LADDER AFSC 276X1

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned to Electronic Warfare Countermeasures Specialty (AFSC 276X1). The data for this report were collected during the period March through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 7-skill level personnel both CONUS and overseas and assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 276X1 airmen worldwide. Responses from 156 individuals represented 42 percent of the total of all AFSC 276X1 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	A1	2
	DIRECT CURRENT AND VOLTAGE	A15	2
2	RESISTANCE	A24	2
3	MULTIMETER USES	B52	2
2 3 4 5	ALTERNATING CURRENT	B61	2 2 2 3 4
5		B67	4
0	INDUCTORS AND INDUCTIVE REACTANCE	DU/	4
7	CAPACITORS AND CAPACITIVE	C92	
,	REACTANCE	C32	_
8	TRANSFORMERS	C128	5 6
9		C171	7
	MAGNETISM		8
10	RCL CIRCUITS	D185	8
11	SERIES AND PARALLEL RESONANCE	D229	10
10	(TIME CONSTANTS)	0000	10
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING	E273	11
15	RELAYS	E294	12
16	MICROPHONES	F314	12
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	SEMICONDUCTOR DIODES	G354	13
20	TRANSISTORS	G404	15
21	TRANSISTOR AMPLIFIERS	G428	16
22	SOLID-STATE SPECIAL PURPOSE		
	DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS	1555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609	22
29	SPECIAL PURPOSE ELECTRON	J616	
	TUBES		23
30	HETERODYNING, MODULATION, AND	J632	
	DEMODULATION		23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	24

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS	K685	25
34	LOGIC FUNCTIONS	L695	25
35	BOOLEAN EQUATIONS	L708 .	26
36	COUNTERS	L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N308	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY	P984	
	RESONATORS		35
48	MICROWAVE AMPLIFIERS AND	P1034	
	OSCILLATORS		37
49	REGISTERS	Q1110	39
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS	Q1140	41
53	SCHMITT TRIGGERS	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	S1149	41
57	SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	\$1150	41
58	INFRARED	T1159	41
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	43
62	DB AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

	27	6X1
COMMAND	PERCENT ASSIGNED	PERCENT OF SAMPLE
ADC	85	81
AFCS	6	6
USAFE	3	5
AAC	4	4
AFAFC	0	3
OTHERS	2	1
TOTAL	100	100

Total Assigned - 371 Total Sampled - 156 Percent Sampled - 42%

PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the 6 selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Alternating Current (pp. 4) and Oscilloscopes (pp. 13) to low in areas such as Timing Circuits (pp. 27-28). Additional AFSC 276X1 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

PET "BAS RESPONDING .YES! BY SELECTED GA

GPSUM! PAGE 1

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS IN THE 270x1 CAREEM FIELD.

REPORTS OF THE FOLLOWING GROUPS ARE REQUESTED

	STATIONED IN CONUS	STATIONED OVERSEAS	ALL AIRMEN DAFSC 27871 ASSIGNED TO ADC	AMM DAFSC 27671 ASSIGNED TO AAC	STATE TO ALLE
27671	27671	27471	27871	71 45	
DAFSC	CAFSC	DAFSC	DAFSC	SC 276	
AIRHEN	41 RMER.	AIRMEN	AIRMEN	AMN OAF	TAN SAN
410	ALL	777	111	ALL	-
SPLOOI	SPL002	SPLOO3	\$007ds	SPL 005	CPI D
	•			•	
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TESK GROUP SUMMARY

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	THE YOUR BORNESS TO YOU USE TASTRUEFATO.	10	10	4	-	c	0	
	HETERS OR OSCILLOSCOPES. IN WHICH IT IS NECESSARY TO					•		MATHEMATICS
	-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICA	S	s	•	*	17	٥	
	OR HAINTENANCE MANUALS, IN WHICH IT IS NECE							
4	A1-03 DO YOU REARRANGE AND SOLVE FORMUL	•	7	9 7	00	20	0	
4	DO YOU CALCULATE THE SQUARE ROOT OF A	-		3	7	C	0	
4	AI-05 DC YOU SOLVE	•	•	•	~	17	0	
	A1-66 DO YOU CONVERT NUMBERS TO LOGARITH	-	~	0	7	0	0	
	11-07 00 YOU USE LO	*	e	۰	•	0	0	
	CALCULATIONS.							
	41-68 DO YOU	0	0	0	0	0	0	
	1-09 DC YOU USE THE NATURAL	-	7	0	7	0	0	
	11-10 DO YOU PERFORM CALCULAT	-	7	0	7	0	0	
	A1-11 DO YOU "ORK "IT	-	7	0	2	0	0	
	SINE, COSINE, OR T							
	A1-12 DO YOU DETERMI	•	~	~	~	0	0	
	AI-13 DO YOU SOLVE OR USE SIM	7	7	0	?	c	0	
	AIST DO YOU SOLVE OF USE PROPORTIONS.	*	*	•	~	1.	0	
1	AZ-GI UG YOU USE THE TERM	-	1 1	42	0,	50	19	
	42-02 DO YOU USE THE TERM	2	* -	13	=	17	33	
	A2-03 DO YOU USE THE TERM OHM.	24	23	56	23	33	*	DIDECT CHODENT AND VOLTAGE
	42-04 DO YOU USE	*	s	0	*	0		STATES CONNENT AND TOLING
	341 350 001 00 50-25	•	ın	0	*	0	2	
	A2-06 DO YOU USE THE TERM	56	23	35	22	33	67	
	42-37 DC YOU USE THE TERM	~	~	0	~	0	0	
2	-38 DO YOU USE THE TERM	7	7	0	7	0	0	
	A2-09 DO YOU USE THE TERM PROTON.	3	+	٥	-	0	0	
	A3-31 03 YOU WORK #1T	3	*	0	2	0	0	
	43-32 00 YOU INSPECT	0	0	0	0	0	0	
	A3-03 DC YOU CLEAN RE	0	0	0	0	6	0	
	A3-04 DO YOU ADJUST RESISTORS.	-	-	•	-	0	0	RESISTANCE
	43-05 DO YOU CHECK OHMIC VALUE	0	0	0	0	0	0	
	A3-36 00 YOU REMOVE OR REPLACE	0	0	0	0	o	0	
	43-07 DO YOU USE OR	0	0	0	0	0	0	
	ESISTORS ON ANY TASKS YOU PERFORM.							
	1 A3-08 DO YOU USE OR REFER TO RESISTOR	-	0	•	-	0	0	
	SYMBOLS OR TAPPED RESIS							
4	2 43-09 DO YOU IDENTIFY ON CLASSIFY TH	-	0	~	-	0	0	
	AITH AS CARBON, FIXED MIRE, SLIDE TAP, RHEOSTAT, OR							
4	3 A3-10 DO YOU USE RESISTOR CO	-	-	~	7	0	0	
	VALUE OF RESISTANCE.				The section			

PCT HBRS RESPONDING "YES" BY SELECTED GRPS

GPSUMI PAGE 3

TASK GROUP SUMALRY PERCENT NEMBERS PERFORMING

	0.1-TSK	100	005	003	1 4	000	900	
A 3 -		0	0	0	0	0	0	
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T 6.1	RESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR	٦	15	0	~		0	
RES A 3-1	ISTINE CIPCUITS.	m	æ	0	7	0	0	
A 3-1		2	2	0	7	0	0	
3 - 1	8 DO YOU CA	٣	٣	o	7	0	0	
3 4 7	9 DO 100 CA	~	6	0	2	0	0	
17 4.7	ISTIVE CIRCUITS. DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARA	•	e	0	~	0	0	
E 4.3	ISTIME CIPCUITS.	8	2	o	7	0	0	
a w	ALLEL RESISTIVE CIRCUITS.	2	8	0	~	c	٥	
SER 4	1ES PAPALLEL PESISTIVE CIRC 3 DO YOU CALCULATE POWER DI	2	8	0	~	0	0	
0 0	ALLEL RESISTIVE CIRCUITS.	٣	e	0	~	0	0	
A 3-2	STIVE CIRCUITS.	•	m	0	8	0	٥	
C18	5 DO YOU CA	~	2	0	2	0	0	
A 3 - 2	ALLEL RESISTIVE CIRCUITS.	2	8	0	2	a	٥	
4 7	ALLEL RESISTIVE CIRCUITS. B DO YOU CALCULATE POWER DI	~	~	0	~	0	•	
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	3 DO YOU ME SURE	o un	•	9 6	0-0	o c	. 0	MIII TIMETER IISES
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-	US 3848431 UCY 00 6	•	6	0	8	0	0	
91-0	7 00 YOU USE MULTINETERS.	n (*	01	m (0	00	
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PCT MBRS RESPONDING .YES' BY SELECTED GRPS

GPSUMI PAGE 4

TASK GROUP SUMMARY PERCENT MENBERS PERFORMING

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GPSUMI PAGE 5

TASK GROUP SUMMARY

PCT HBRS RESPONDING TYEST BY SELECTED GRPS

GPSUM! PAGE

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

	X21-70	SPL 000	SPL 002	SPL	SPL	SPL	SPL	
	Do You "ORK	2 S S	00	m (00	00	
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	1-33 Oc YOU 408x 211	0	0	0	0	•	0	
	THE WOOM ON DO THE TO	•	0	0	0		0	
	1-35 DO YOU ADREST 174	-	-	0	0		0	
	C1-36 DC YOU "ORK "ITH	-	~	0	8	0	٥	
			-	-	-	-	-	
I -	128 CZ-01 DO YOU "ORK "ITH TRANSFORMERS IN YOUR PRESENT JOB	-	-	0	-	0	0	
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_		0	0	0	0	0	0	
_	DO YOU	0	0	0	0	0	0	TRANSFORMERS
_	132 C2-35 DO YOU TROUBLESHOOT TRANSFORMERS	0	0	0	0	0	0	
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	TEANSFORMERS		•				•	
_	140 CZ-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR	0	0	0	0	0	•	
	TAANSFORMERS		•		•	-	•	
	CZ-14 DO YCU YORK PITH	0 (0	0	0	0	0	
-	C2-15 DO YOU "ORK "ITH POWER	0	0	0	0	0	0	
-	C2-16 DO YOU "ORK "ITH AUDIO TRANSFORMERS	0	0	0	0	0	0	
-	C2-17 DO YOU HORK AITH RADIO FREQUENCY TRANSFORM	0	0	0	0	0	0	
-	145 C2=19 DG YOU FORK AITH DON'T REMEMBER ANAT TYPE OF	-	-	0	-	0	6	
	THE COUNTY OF THE STORMERS FOR UPEN PLYCHES AT	0	0	0	0	c	0	
	MEASURING RESISTANCE					,		
	147 C2-20 DO YOU CHECK THANSFORMERS FOR SHORTED WINDINGS BY	0	0	0	0	0	0	
	ATASURING RESISTANCE							
_	149 C2-21 90 YOU CHECK TALUSFORMERS FOR SHORTED WINDINGS BY	•	0	0	0	0	0	
	*0_T4GES							
	PESISTANCE OF TRAN	5 10 0	0	0	0	0	0	
	THINE AMETAER A TRANSFORMER MAS A							
	RE COTPUT VOLTAGE OF TRANSFORME	0	0	0	0	0	0	
	DETERMINE BAETAER A TRANSFORMER MAS A STEP-UP OF							
	151 C2-24 DO 704 REFER TO BASIC TRANSFORMER SCHEMATIC SYMBOL	0 570	0	0	0	0	0	
	STURE TO THE STATE OF THE STATE							

TASK GROUP SUMMARY
PERCENT REMBERS PERFORMING

5PL SPL SPL 003 004 005 006	0 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0	0	0 0	0 0		0	000		2 0	000		0 0	00	
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30 100	0	0	0	o	0	0	0	0	0	0	0	0	0	00	0	00		2	- -	0	-	→ w	-
XX-15K	00	-25 00 100 MERES TO	-27 00 -27 00	C 155 C2-28 DO YOU KEFER TO AIR CORE SCHEM, TIC SYNBOLS FOR	C 156 C2-20 DU PEFEN TO 140M CORE SCHENATIC STMGOLS FOR	O YOU MEFER T	ATIONSHIPS GETAEEN	O YOU DETERAINED OF REFER TO THE TYPE OF CORE	CAMERS TO COME ALLE THE GENERAL BULE TART THE	YOU USE ON REFER TO STEP-UP OR STEP-JOAN RETT	400	DO YOU	DOE	FFAUL INANSPONDERS C. 165 GA-18 DO FOU INSPECT C-144 GA-99 DO YOU CLEAN OF LUBRICATE PHASE PHASE TANKES	167 C2-43 OL YOU ADJUST THREE PHASE TRANSFORMERS	DO YOU PENDYE OF BERT AND	TALMSFORMERS	171 C3-01 00 YOU USE OR HEFEN TO PERHANENT	C 172 CBIOZ DO YOU USE CA ABREAR TO HESPOARY MAGNETS	PATESTICS OF SEFER TO RELUCTATIONS OF MASHETIC	- O	PATERIALS C 176 C3-06 DG YOU USE OF HEFER TO RESIDUAL MASNETISM C 177 C3-07 DG YOU USE OF HEFER TO RESIDUAL MASNETISM	FLUX CHACK TO YEAR TO VERETHYS THEORY OF TACHTISM

Pet 4885 RESPONDING TYEST BY SELECTED GRPS

GPSUM1 PAGE

TASK GROUP SUMMARY DEFECRMING

SPL SPL SPL		00	-		0	0 0	3 33 0	1 0 0 RCL CIRCUITS	0 0	0 11 0	0 11 0	0	0 18 9	1 33 0	6 33 0	0 88 9	0 41 1	1 17 0	0	6 33 0	0 66 8	4 33 0	1 17 0	2 17 0	0	
SPL 003	0	00	7		0	0	•	0	0	~	9	0	•	•	٠	•	3	•	0	•	۰	•	f	•	6	
SPL	-	~	7 7		0	0	*	-	0	0	0	0	1	2	•	1	-	-	~	,	•	'n	~	*	0	
SPL	-	~	12		0	0	7	-	0	-	-	0	1	•	•	1	-	-	-	1	•	s	•	•	0	
321-YG	YOU USE OR REFER TO	C3-10 DO YOU USE OR REFER TO	C 181 CATTL DO TOU USE OF REFER TO THE GENERAL RULE THAT FOR	MAGNETIC POLES, LIKE POLES A	C 183 C3-13 DO YOU USE THE LEFT JAND THUMB RULE TO FIND THE	SE THE LEFT WAND THUNB RULE TO	0	D 166 01-02 DO YOU USE ON REFER TO VECTORS WHEN MORKING WITH RCL		D 189 DI-04 DO YOU USE OR REFER TO SINE WHEN WORKING MITH ACL	CIRCUITS D 189 DI-35 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL	CIRCUITS O 193 31-36 DO YOU USE OF REFER TO TANGENT WHEN MORKING MITH RCL	CINCUITS D 191 31-07 00 YOU USE OR REFER TO MATTS WHEN MORKING WITH RCL	CINCUITS DI 192 DI -08 DO YOU USE OR REFER TO TRUE PONER (PT) WHEN WORKING			YOU USE O	PORKING WITH RCL CIRCUITS D 196 DIMIZ DO YOU USE OR BEFER TO BONER FACTOR (PF) WHEN WORKING	TOU USE O	DESCRING MITH ACL CIRCUITS OF PEFER TO SANDMIDTH WHEN WORKING MITH		100 USE 0	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D 202 01-18 00 YOU USE OF REFER TO BANDPASS REGION AMEN WORKING	203 DIFTS BOY OF USE OF SEFER TO	ACL 6140

PER NEWS RESPENDING TEST OF SELECTED GAPS

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TASK GROUP SURMARY PERCENT MEMBERS PERFORMING

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TASK GROUP SUNMARY PERCENT MEMBERS PERFURMING

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#21 GZ=18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC			ح ح	1	-		-	1		
422 G2-19 00 YOU USE OR REFER TO BETA TRANSISTOR GAINS 424 G2-20 DO YOU USE OR REFER TO ALPHA TRANSISTOR GAINS 425 G2-20 DO YOU USE OR REFER TO GAHMA TRANSISTOR GAINS 425 G2-22 DO YOU USE OR REFER TO GAHMA TRANSISTOR GAINS 426 G2-23 DO YOU CALCULATE GAMMA TRANSISTOR GAINS 427 G2-24 DO YOU CALCULATE GAMMA TRANSISTOR GAINS 428 G3-21 DO YOU CALCULATE GAMMA TRANSISTOR AMPLIFIERS IN YOUR 428 G3-30 DO YOU NSPECT TRANSISTOR AMPLIFIERS 430 G3-03 DO YOU NSPECT TRANSISTOR AMPLIFIERS 431 G3-03 DO YOU TRUGULESHOOT TO AMPLIFIER COMPONENTS 432 G3-04 DO YOU REMOVE OF REPLACE THE COMPONENTS 434 G3-05 DO YOU REMOVE OF REPLACE THE COMPONENTS 435 G3-05 DO YOU WEENOVE OF REPLACE THE CAMPONENTS 436 G3-05 DO YOU WEENOVE OF REPLACE THE SPECIFIC CHANGE IN 436 G3-07 YOU WEENOVE OF REPLACE THE SPECIFIC CHANGE IN	g	451	YOU USE OF	0	0	0	0	C:	0	
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427 G2=24 DC 70U CALCULATE GAMMA TRANSISTOR GAINS 428 G3=01 DC 70U ACAR ATTH TRANSISTOR GAINS 429 G3=02 DC 70U ANSPECT TRANSISTOR AMPLIFIERS IN 70UR 430 G3=03 DC 70U ANSPECT TRANSISTOR AMPLIFIERS 431 G3=03 DC 70U TRCUELESHOOT TO THE AMPLIFIERS 432 G3=03 DC 70U TRCUELESHOOT TO THE AMPLIFIERS 433 G3=04 DC 70U TRCUELESHOOT TO THE AMPLIFIERS 434 G3=07 DC 70U TRCUELESHOOT TO AMPLIFIERS 435 G3=05 DC 70U TRCUELESHOOT TO AMPLIFIER COMPONENTS 436 G3=05 DC 70U TRCUELESHOOT TO AMPLIFIER COMPONENTS 436 G3=07 DC 70U REMOVE CR REPLACE THE COMPONENTS 436 G3=07 DC 70U VSE OR REFER TO (COMPONENTS) THE CMA'GE IN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		426	DO YOU CALCULATE ALPHA TRANSISTOR	0	0	0	0	0	0	
#28 G3=01 DG TOU #0FK #1YH TRANSISTON #MPLIFIERS IN YOUR I Z 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	427	DO YOU CALCULATE GAMMA TRANSISTOR	0	0	0	0	0	0	
PRESENT JOB 429 63-02 DO YOU INSPECT TRANSISTOR AMPLIFIERS 430 63-02 DO YOU ALIGN EARLISTOR AMPLIFIERS 431 63-03 DO YOU ALIGN EARLIST TRANSISTOR AMPLIFIERS 432 63-04 DO YOU ALIGN EARLISTER COMPONENTS 433 63-05 DO YOU REMOVE OR REPLACE THE COMPONENTS 434 63-05 DO YOU REMOVE OR REPLACE THE COMPONENTS 435 63-05 DO YOU REMOVE OR REPLACE THE COMPONENTS 435 63-05 DO YOU SE OR REFER TO (COMMON EMITTER) THE CHANGE IN DO	9	478	DO TOU BORK BITH TRANSISTOR AMPLIFIERS IN	+	~	0	-	0	0	
429 63-02 D0 YOU INSPECT TRANSISTOR AMPLIFIERS 430 63-03 D0 YOU ALIGN OF ADJUST TRANSISTOR AMPLIFIERS 431 63-03 D0 YOU TRUBLESHOOT TO THE AMPLIFIERS 432 63-05 D0 YOU TRUBLESHOOT TO THE AMPLIFIER COMPONENTS 433 63-05 D0 YOU REMOVE OR REPLACE THE COMPONENTS 434 63-05 D0 YOU REMOVE OR REPLACE THE COMPONENTS 435 63-05 D0 YOU REMOVE OR REPLACE THE COMPONENTS 50-05 D0 YOU SERVEY THICH RESULTS FROW A CLANGE IN BASE 435 63-05 D0 YOU USE OR REFER TO (COMMON EMITTER) THE 435 63-05 D0 YOU USE OR REFER TO (COMMON EMITTER) THE 435 63-07 YOU USE OR REFER TO (COMMON EMITTER) THE 435 63-07 YOU USE OR REFER TO (COMMON EMITTER) THE 435 63-07 YOU USE OR REFER TO (COMMON EMITTER) THE			ENT JOB							
430 63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS 431 63-04 DO YOU TRUBLESHOOT TO THE AMPLIFIER CIRCUIT LEVEL 433 63-05 DO YOU TRUBLESHOOT TO THE AMPLIFIER COMPONENTS 434 63-05 DO YOU REMOVE OR REPLACE THE COMPONENTS 435 63-05 DO YOU REMOVE OR REPLACE THE COMPONENTS 436 63-05 DO YOU REMOVE OR REPLACE AMPLIFIER TO THE CHANGE IN	9	454	00 00	0	0	0	0	o	0	TDANCTCTOD
431 G3-C4 DD YOU TRCUELESMOOT TO THE AMPLIFIER CIRCUIT LEVEL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	430	DO YOU ALIGN OR ADJUST	0	0	0	0	0	0	NOIST STORY
432 G3-G5 DO YOU TRUBLESHOOT TO AMPLIFIER COMPONENTS 433 G3-G6 DO YOU REHOVE OR REPLACE THE COMPLETE AMPLIFIER 434 G3-G5 DO YOU REHOVE OR REPLACE AMPLIFIER COMPONENTS 435 G3-G5 DO YOU VERNOR REPLACE AMPLIFIER COMPONENTS 63-G5 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN 436 G3-G9 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN	9	43:	DO YOU TROUBLESHOOT TO THE AMPLIFIER CIRCUIT	0	0	O	O	0	0	
433 63-66 DO YOU REMOVE OR REPLACE THE COMPLETE AMPLIFIER 434 63-67 DO YOU REMOVE OR REPLACE AMPLIFIER COMPONENTS 63-69 DO YOU USE OR REFER TO (COMMON ENITTER) THE CHANGE IN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	432	DO YOU TRUBLESHOOT TO AMPLIFIER COMPONENTS	0	o	0	0	0	0	
434 63-67 DO TOU REMOVE ON MEMLACE AMPLIFIEN COMPONENTS 435 63-69 DO YOU USE ON REFER TO (COMMON ENITTEN) THE CHANGE IN O O O O 435 43-69 DO YOU USE ON REFER TO (COMMON ENITTEN) THE CALCOLATIONS NECESSARY TO MEMSURE THE SPECIFIC CHANGE IN	9	433	DO YOU REMOVE OR REPLACE	0 0	0	0	00	0	0	
435 63-58 DO TOU USE OF REFER TO (COMMON EMITTER) THE CHANGE IN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	o	4 3	SO TO TEMONE OF HERLACE AMPLIFIEN COMPONENTS	0	0	0	0	c	o	
436 43-09 30 YOU USE OR REFER TO (COMMON ENITTER) THE CALCULATIONS MECESSARY TO MEASURE THE SPECIFIC CHANGE IN	.9	435	THE CHAPTER TO (COMMON ENTITER) THE CHAPGE	0	0	0	0	0	0	
CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN	9	43.4		0	0	0	0	0	0	
			HANGE							

AMPLIFIERS

PCT 1645 RESPONDING TEST OF SELECTED GRPS

		5×-15A	3 PL 000	200	5PL 003	1450	5PL 005	360
9	437	G3-10 On YUU USS ON REPER TO (COMPON EMITTER) THE CHANGE IN CLUECTON VILL OF AMICH SPECIES FROM A CHANGE IN MAKE	0	0	O	0	Ci	o
9	+33	CALL OF COUCSE OF SERRY TO (COMOUN EMITTER) TO COULD TO SERVE TO COURSE OF SERVEN TO MAKE MALE TO SERVE TO THE SERVEN TO MAKE SERVEN TO	-	-	0	o	C	0
,	65	63-12 DU YOU USE ON PEFER TO (CONTON EMITTER) THE SASE CURREN MAINTERN THE STAND	-	-	0	a	0	0
17	3	GA-13 DU YOU USE OF REFER TO LOW-MON EMITT	-	-	0	o	0	0
19	7,	63-14 DO YOU USE THE LOAD-LINE METHOL OF ANALYSI	0	0	0	0	o	0
9	7,,	63-15 OC 700 OS OF REFER	0	9	O	U	0	o
9	7,	G3-16 DO YOU CALCULATE	O	0	0	o	o	0
9	1	63-17 00 YOU	0	o	0	0	o	a
9	1 1	33-18 00 400	O	O	0	o	c	0
9	,	,	0	13	0	o	C	0
19	1.7	63-20 00	0	0	O	o	0	0
•		THE THE PROPERTY OF THE PROPER	o	0	o	0	o	Ċ
9	7	63-22 DO YOU CALCUL	0	O	0	o	0	٥
	10	CALLES TO VIEW TO AND THAT COME COLLECTED TO THE CALLEST TO THE CA	0	3	0	o	O	o
.9	iệ.	GREAT AND ALL OF THE U.S. CONTROLLED AND TENTAL OFFICE AND THE STATE OF A STATE OF THE STATE OF	o		0	0	o	0
9	452	63-25 DC 700 106471FY 04 5	0	O	0	o	o	o
.9	.53	63+20 CO YOU TOURSTIFY OF SCHEMATIC DIAGRAMS AND THE DOTHOUGHT ASSOCIATED	. ,3	O	0	0	U	٥

GPSUMI PAGE 18 PCT 48RS RESPONDING TYEST BY SELECTED GRPS

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

SPL SPL SPL SPL 002 003 004 005 026	0 0 0 0	0 0 0	0	0	0	0 0	0 0	0 0 0	0 0 0 0	0 0	0	٥	0	0	0	0	0			0	0 0 0	0	0
SPL 001	0	0	0	0	0	0	0	0	0	0	0	n	0	o	0	0	0		•	0	0	0	0
PY-T5K	7 DO YOU IDENTIFY ON SCHEMATIC DI	ACTUAL CIRCULTRY THE COMPONENTS ASSOCIATED B DO YOU IDENTIFY ON SCHEMATIC DIAGRAHS AND	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH G #58 G3#29 DG YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO		THE ACTUAL CIRCUITRY THE COMBONENTS ASSOCIATED 458 G3-31 G0 YOU TROUBLESHOOT CIRCUITS WILLH HAVE CO	PERFORM EMITTER (SWAMPING) MESI NO YOU TROUBLESHOOT CIPCUITS AHI	S	RCULTS	S U	REVERSE BIAS	THICH PERFORM DOUBLE DIDE	CIRCUITS 465 G3-33 D3 YOU TROUBLESHOOT TRAUSISTOR CIRCUITS ?	466 G3-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR	CIACUITS 467 63-40 DO YOU IDENTIFY PHASE DISTORTION FOR TRAN		469 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND	CAUSES OF PREQUENCY DISTORTION 420 63-43 50 YOU WEED TO KNOW THE DESCRETATIVE EFFECTS DA	CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR	APPLIFIERS IN ORDER TO TROUGLESHOOT AMPLIFIER	G3-45 DC YOU TROUBLESHOOT OR REPAIR PARAPHASE	473 63-46 DG YOU TROUBLESHOOT OF REPAIR PUSH-PULL AMPL	474 63-47 50 YOU TROUBLESHOOT OR REPAIR COMPLEMENT	G 475 G3-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED

DV-15K DV-1	PERCENT MEMBERS PERFORMING							
		1	SPL					
10	476 63-49 DO YOU TROUBLE	HOOT OR REPAIR CASCADE-CONNECTE	0	0	0	0		
### ### ### ### ### ### ### ### ### ##	477 HI-01 DO YOU USE OR	EFER TO VARACTORS	1	0	9	0		
### 141-05 DO 700 USE ON BEFER TO FILE ON THE STATE OF TH	478 41-02 DO YOU USE OR	EFER TO TUNNEL DIODES	0	0	0	0		
### 7 10 10 10 10 10 10 10	479 HI-03 00 YOU USE OR	EFER TO FIELD EFFECT TRANSISTORS (F	-	0	~	0		
### 1 1 1 1 1 1 1 1 1	480 HI-04 DO YOU USE OR	EFER TO UNIJUNCTION	-	n	•	0		
### ### #### #### ####################	481 HI-05 DO YOU USE OR	EFER TO ZENER DIODES	-	-	•	-	17	
1483 14201 1 7001 7001 145ECT POYER SUPPLIES 1452 20 70 70 145ERT POYER SUPPLIES 1452 20 70 70 70 145ERT POYER SUPPLIES 1452 70 70 70 70 145ERT POYER SUPPLIES 1452 70 70 70 70 145ERT POYER SUPPLIES 1452 70 70 70 70 70 70 70 70 70 70 70 70 70	482 HI-06 DO YOU USE OR	EFER TO INTEGRATED CIRCUITS	8		9	6		
### 12-05 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	THE TOTAL TOTAL TREESEN	JOBS DO YOU SORK WITH POWER SUPPLIE	- 0	~ <	0 0	~ 0		
### ### ### ### ### ### ### ### ### ##	THE HOUSE DO TOO INSTELL	מייט מיים	•	o c		o c		
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GPSUMI PAGE 21 TASK GROUP SUMMANY DEPOSATING OF CENT HEYBERS PERFORMING

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PCT YBRS RESPONDING TEST BY SELECTED GRPS

GPSUNI PAGE 22

TASK SPULP SUMMARY
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07-TSK	1 S86 13-22 DG YOU CALCULATE ACTUAL VALUES OF TRIODE	DO YOU USE OR	1 508 13-24 DO YOU USE OR REFER TO ELECTHO. TUBE TRANSCONDUCTANCE	SES 13-25 DO YOU CALCULATE ACTUAL	TRANSCONDUCTANCES	CALLED AC PLATE RESISTANCE	SPZ 13-ZB DC YOU USE OR REI	CAPACITANCE 593 13-29 DO YOU USE OR REFER TO	*DAK WITH ELECTRON TUBES 1 594 13-30 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE	USE CHA	CURRENT FOR A SPECIFIED BIAS 1 596 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	REQUIRED FOR CUTOFF 1 597 13-33 DO YOU USE CHAMPETERISTIC CURVES TO SELECT BIAS	RESULPTED FOR SATURATION SOUTH TO FLECTRON TUBE	PEFER TO ELECTROY TUBE AMPLIFIER	I 600 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERHINE ELECTRON	THEE AMPLIFIER GAIN I 601 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE	1 4.2 13-38 30 YOU USE DSCILLOSCOPES TO DETERMINE ELECTRON TUBE	1 033 13+39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE	1 624 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH	_	TO PIN YUMBERING SYSTEMS	-	USE GA PEFER TO TUBE SUBST		U 610 U1-02 DO YOU DETERVINE THE CLASS OF OPERATION FOR ELECTRON TOBE AVPLIFIERS IT OF SER TO TROUBLESHOOT AMPLIFIER

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PCT 1845 RESPONDING TYEST OF SELECTED GRPS	DAINED SOLVENT PRINTED PAINTED	x2-15k	JI-03 DC YOU TROUBLESHOOT OR REPAIR PARAFHASE AMPL JI-04 DC YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPL	613 JI-55 DO YOU TRUBBLESHOOT OR REPAIR	J AI 4 JI-DA DO YOU TACUBLESHOOT OF REPAIR CASCACE TOWNECTED	AMPLIFIERS JAN 11 AND AMPLESHOOT OR REPAIR JON'T KNOW WAICH TYPE	J 616 J2-01 DO YDU AGRK AITH GAS TURES (HOT CATHODE OF COLD	617 J2-02 DO YOU MORK WITH CATH	SIGNATURE OF TORIS OF TRUITS OF BREATH CIRCLES OF THE COMPANY OF T	POWER TUBES ARE USED		-06 po You TROUB	TAYNATHONS AND USED	ELECTRON GUNS OF CATHODE-RAY TUBES (CRT)	OR REFER	AND LONG OF YOU USE OR REFER TO THE PART	ELECTROSTATIC DEFLECTION SYSTEMS OF CATHOLE-MAY TUBES	625 J2-10 DC YOU USE ON HEFER TO	U 626 UZ=11 DO TOU USE OF FEFER TO ABUAUAG COATINGS	629 J2-13 DG YOU USE OR HEFER TO	629 JZ-14 DO YOU USE OR REFER TO	630 J2-15 DO YOU USE OR REFER TO	J3-01 00 100 -04K 64 144841T	PARESET COS	000	335 J3-34 30 YOU USE ON REFER TO THE METERSO	IN YOUR HORK MITH TOANSMIT OF RECEIVE SYSTEMS	US-35 DO YOU PERFORM TASKS DO REACTANCE	J3-36 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS	TO YOU HORK ON AT TRANSMIT OF TECE	2 30 YOU INSPECT AN THANSMIT OF FECEIV	40 KI-03 30 YOU CLEAN AN THANSHIT OF PECEIVE SYSTEMS	KI-UH DO YOU ALIGN OF 10JUST AN TRANSMIT O

PCT 4875 RESPONDING .YES' BY SELECTED GRPS

GPSUMI PAGE 24

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

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27=TSK	KI-05 DO YOU TROUBLESHOOT TO AM TRANSHIT	I TROUBLESHOOT TO AH TRANSHIT OR	44 KI-07 DO TOU REJOVE OF REPLACE AN TRANSMIT OR RECEIVE	S SO SYCONE	COMPONENTS	KI-09 DO YOU PEHFORM TASKS ON RF	KI-10 DO YOU PERFORM TASKS ON RF AMP	KI-II DO YOU PERFORM TASKS ON AUDIO	KI-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	KI-13 DO YOU PERFORM TASKS ON LOC	KI-IN DO YOU PERFORM TASKS ON	PERFORM TASKS ON DETECTORS	1-17 00 700	TRANSMITTERS	SS KI-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN	TRANSMITTERS KIRIO DO YOU USE OF BEEFER TO SENSITIVITY OF RECEIVER	K1-20 DO YOU USE OR REFER TO SEL	USE OR REFER TO 2ND HARMONIC DI	NAS OF M373" "0 320 UUV 00 55-12	KI-23 DO YOU USE OF REFER TO SQUARE L	AI-24 DO TOU DE DESTEN TO CO-CAANGEL INTERFERENCE	41-25 DC YOU USE OR REFER TO SIGNAL	IMAGE REJECTION PATIOS		TRACE SIGNALS OR	HEMATIC DIAGRAMS	YOUR PRESENT	K2-02 DO YOU INSPECT FH TRANSMIT OR RECEIV	CLEAN FIR TRANSMIT OR RECEIVE SY	K2-C4 DO YOU ALIGN FY TAANSMIT OR RECEIVE SYSTEMS	ממו ממ בחבש מ	SYSTEMS 1 x2-06 DO YOU TROUBLESHOOT TO FM TRANSHIT OR RECEIVE	COMPONENTS	ELOVE OF VETER FOR TANGETT OF VETER	673 42-38 30 YOU RE-OVE OF REPLACE FM TRANSMIT OF RECEIVE	COMPONENTS COMPONENTS TAKE OF THE PROPERTY TAKES OF THE PROPERTY OF THE PROP

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GPSUMI PAGE 25

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78 KZ-13 DO YOU PEROPY TASKS ON RE AMPLIFIERS	-	,	0	7	0	، د	
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(BASE 8) NUMBERS 686 K3-02 DO YOU CONVERT DECIMAL N	12	<u>.</u>	0	5	o	0	NUMBERING SYSTE
657 K3-03 DO YOU CO.VERT OCTAL NUMBERS TO		+	•		0	0	
ARB KB-D4 DO YOU CONVERT OCTAL NUMBERS TO BINARY NUMBERS	*	•	0	•	c	0 0	
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PCT MBRS RESPONDING TYEST BY SELECTED GRPS

GPSUMI PAGE 26

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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L 727 L2-23 DG YOU USE OF FEFER TO COMPLEMENTED FLIP-FLOP	0	0	0	0	0	0	
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PCT "BRS RESPONDING "TES" BY SELECTED GRPS

GPSUMI PAGE 28

TASK GROUP SUMMARY PERCENT HEMBERS PERFORMING

PCT MBRS NESPONDING TEST SY SELECTED GAPS

GPSUH1 PAGE 29

PASK GROUP SCAMALY

PCT MBMS RESPONDING TEST BY SELECTED GRPS

GPSUMI PAGE 30

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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GPSUNI PAGE 31

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PCT 1875 ALSPONDING .YES. BY SELECTED GAPS

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O 690 02-16 00 YOU PEAFORM TASKS ON PULSE MODULATION SYSTEM D 896 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM C 893 02-19 OC YOU PERFORM TASKS ON PULSE MODULATION SYSTEM SAITCHES SUCH AS GAS THYRATRONS OF 22-20 CO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM IF AMPLIFIESS OF YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIDEO AMPLIFIERS OF PULSE MODULATION SYSTEM COMPAGING CHOKES AND CHARGING DIODES GOULATION SYSTEM PULSE FORMING METHORKS
892 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM 895 02-21 DG YOU PERFORM TASKS ON PULSE HODULATION SYSTEM 0 897 C2-23 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM FREQUENCY CONVERTERS
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0 914 03-01 DO YOU NORK AITH ANTENNES IN YOUR PRESENT JOB
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TASK GROUP SUMMARY
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N-15K	916 03-03 00 700 0	03-04 DO YOU PHYSICALLY ALIGN ANT	918 03-05 DO YOU ELECTRICALLY ALIGN	919 03-06 DO YOU TROUBLESHOOT TO ANTENNAS	20 03-07 30 YOU TROUBLESHI	921 03-08 00 YOU PEMOVE OR INSTALL ANTENIAS	922 03-09 00 YOU REMOVE	923 03-10 00 YOU USE OR	REPRESENTATIONS OF E OR ELECTRIC FIELD LIVES	-11 or YOU USE OF	REPRESENTATIONS OF A OR MAGNETIC FIELD LINE	10 146	REFER TO THE GENERAL RUL	ANTENNAS SHICH ARE	C 927 33-14 DO YOU USE OR REFER TO THE GEMERAL RULE THAT ANTENNAS	MAICH ARE LUNGER THAN A HALF-WAVE ACT AS IND	0 928 03-15 DO YOU USE OF REFER TO THE GENERAL RULE THAT ANTENNAS	ANICH ARE SHURTER THAN A HALF-MAVE ACT AS CA	929 03-16 DG YOU +ORK +ITH	430 03-17 00	931 03-18 00 YOU WORK WITH	DB-19 OF YOU YORK FITH CND-FIRE	433 03-20 DO YOU "ORK "ITH	934 03-21 DO YOU NORK AITH COLLINEAR ARRAYS	C 435 03-22 DO YOU CSE ON REFER TO THE TERM ELECTROMAGNETIC	MEASURE ELECTROMAGNETIC	O 937 03-24 DO YOU USE OR REFER TO THE TERY ELECTROMAENETIC	-25 DO YOU MEASURE ELECTRORAGNETIC	FIELDS OF ANTENNAS	350 00X 30	AND TABLET OF TO CONTROL OF AN AND AND		S ATE AZ OF THE ATTREADY YOUR TOAK ON LINEARLY	POLARIZED	C 342 03-29 ARE ANY OF THE ANTENNAS YOU NORK ON CINCULARLY	9618412ED	TO YOUR OLD TO YOUR DESCRIPTION OF THE PROPERTY OF THE PROPERT	31 DC 70	

PCT 1845 RESPONDING TYES BY SELECTED GRPS

TASK GROUP SUMMARY PERFORMING

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PCT MBRS RESPONDING .VES. BY SELECTED GAPS

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TASK GROUP SUMMARY PERCENT YENGERS PERFORMING

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Jr-15k	PICCA P2-23 30 YOU USE ON REFER TO "B" MALE OF WAVEGUIDES PICCA PZ-21 30 YOU USE OR REFER TO CUTOFF FRECUENCY OF WAVEGUIDES PILOS P2-22 30 YOU USE ON REFER TO FREGUENCY—SETERMINING MALL OF	PIGGS PZ-23 DO YOU USE OR PEFER TO POMEN-DETERNINING MALL OF	PIDO7 P2-29 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY	PIUDB P2-25 DG VSE ON REFER TO MAGNETIC FIELD BOUNDARY	PIGGS P2-25 GO YOU USE OF REFER TO DUPLEXER FIELD BOUNDARY	TO THE GENERAL RULE	THE MADE WITH A "8" WALL SIZE OF .7	PICIZ PZ-29 APE YOU CONCERTED WITH THE MATERIAL (SUCH AS BRASS)	AHICH AAVEGUIDES ARE MADE OF PIGIS P2-30 DO YOU COMPUTE THE LENGTH OF A MAVEGUIDE FOR SPECIFIC	MAND RULE TO DETERMINE	A TO THE TIME PHASE OF PEA	PICE PZ-33 DO YOU HEASURE THE TIME PHASE OF "E" OR "H" LINES IN	PICIT PERSON TOU USE OR REFER TO THE SPACE QUADRATURE OF "E" OR	- 35 APE HIGH POPER	2 12 C	A A C	A PERTURES (*	P_1022 P_2=9 ARE DOWN'T REMEMBER THE KIND OF ENERGY COUPLING USED ON ARTGUIDES OF CALITY PRESONATORS YOU ASK AITH	TERMINE AMERE PROBES SHOULD BE	TO TO THE WILL BE POST OF TO THE POST OF TO THE POST OF TO THE POST OF TO THE POST OF THE

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RESOLATORS YOU WORK MITH
PIDEA P2-45 AME DON'T REMEMBER THE KIND OF UDINTS USED IN
MAYEGUIDES OR CAVITY RESOLATORS YOU MORK MITH
PIDEA P2-46 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING
PIDEA P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING
PIDEA P2-47 DO YOU TUNE CAVITY RESONATORS USING WOLUME TUNING
PIDEA P2-47 DO YOU TUNE CAVITY RESONATORS USING WOLUME TUNING PICES P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN AAVEGUIDES OR CAVITY RESONATORS AITHOUT REFERRING TO PICES F2-43 ARE CHOKE JOINTS USED IN AAVEGUIDES OR CAVITY RESONATORS YOU AGRE AITH YOU USE OF MEFER TO PRINCIPLE OF ELECTRON VELOCITY AORK MITH UP-COLVERTER PARAMETRIC AMPLIFIERS PENOVE OR REPLACE COMPLETE KLYSTRON OF THE PENOVE OF REPLACE KLYSTRON OF THE COMPONENTS THE METHOD OF TUNING PIGGE OF SIGNALS IN CAVITY TTAVELING WAVE TUBES (TMT), PARAMETRIC AMPLIFIERS, OR PIUBS P3-02 DC YOU USE OA REFER TO INTERELECTRODE CAPACITANCE FIC3.6 73-03 DC YOU USE OF HEFER TO ELECTRO. TRANSIT TIME P10.37 P3-04 DO YOU USE OR HEFER TO LEAD INDUCTANCE P10.38 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL DO YOU HORK WITH KLYSTRONS. HORK WITH MAGNETRONS

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CLEAN PACAMETRIC AMPLIFIERS
ADJUST PACAMETRIC AMPLIFIERS TROUBLESHOOT KLYSTROWS OR TAT PCT MBAS AESPONDING OVES, BY SELECTED GAPS PIOST PS-01 IN YOUR PRESENT TASK GROUP SUMMANY 20000 2222232 3333333 00 YOU HODDLATION AMPLIFIERS CIRCUITRY Pir.39 - 3-06 00 00 00 000000 P1043 P3-10 P1044 P3-11 93-18 P3-07 93-13 3-1+ P3-23 03-17 p 3-55 P1040 P1050 P1051 91014 P1047

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X21-Y0	C YOU USE OF REFE	FIGHT PARTY OF YOUNG OF SEREND THE OPENATIVE PRINCIPLES OF	PIUPU P3-57 UC YOU USE OR REFER TO THE OPENATING PRINCIPLES OF	TRAVELLINGAVE TUBES CATHODES P3-58 DO YOU USE OR REFER TO THE	- 6	744VELING-*4VE	TRAVELLING-MAVE TUBES HELIXES	TAAVELING-AAVE TUBES COLLECTORS P3-62 DO YOU USE OR REFER TO THE	TRAVELING-AAVE TUBES MAGNETS P3-63 DO YOU USE OR REFER TO THE	TRAVELLIAGE TOBES ATTENDATORS	CINCULATORS P3-65 DO YOU PEAFORM TASKS ON	CAVITIES CAVITIES CAVITIES CAVITIES	CAVITIES P3-67 DO YOU PERFORM TASKS ON	DIUDES PILOI P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	1506		P3-71 00 YOU PERFORM TASKS ON	PILOS PALAZ DO YOU PERFORM TASKS ON COUPLING LOOPS	P3-74 DC TOU PERFORM TASKS ON	P3-75 00 YOU PERFORM TASKS ON CATHODES	PATENT PARTY OF THE TANKET TANKE OF MACHEN	1 21-32 00 734 45g 04 4grg 70 SHIFT REGISTERS	11-03 50 100 USE 38 PEFER TO LOGIC	PRINCIPLE ROLL OF GRANDER AND AND THE ROLL OF THE PRINCIPLE BEING AND THE BEIN	PEG1STERS	STILL STADS DO YOU TAVOR THE DATA FLOW TIROUGH LOGIC DIAGRAMS OF	00 Y 30 TB	OTTEN TYPE OF HEGISTERS

REGISTERS

PCT MARS RESPONDING TYEST AT SELECTED GAPS

GPSUH! PAGE 40

TASK GAGUP SUMMARY PERCENT MEMBERS PERFORMING

			STORAGE DEVICES												DIGITAL TO ANALOG CONVERTERS																			
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304	-	31		97	52	58	50	52		,	1	uñ	0.1	c		7	•	•	O	c	•	-	,	2	-		0		0	-	•	0	0	-
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200	-	33	•	2	97	30	21	56	•	2	•	•	10	a		~	•	•	0	c		-		-	-		0		0	-		o	0	-
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0Y-15K	WILLS 41-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A	REGISTERS,	STORAGE DEVICES IN YOUR P	42-52 DO 100 USE ON MERER TO DELAT LIN	22-03 DO YOU USE OF REFER TO MAGNETIC	92-34 DO YOU USE OR REFER TO MAGNETIC	22-35 30 YOU USE OR REFER TO MAGNETIC TAPES	0 0	MEMORY SYSTEMS	CALCAULT CO TOO TOO TO ACTUAL TO ACTUAL CALACITY OF ACTUAL	DITZ# 52-08 DO YOU USE OF REFER TO VOLATILITY OF MEMORY SYSTEMS	32-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY	GB-CI IN YOUR PRESENT JOB, ON YOU WORK WI	APALOG (D/A) CONVERTERS, AMALOG-TO-DIGITAL (A/D)	DIGITAL-TO-MALOG (D/A) CONVERTERS FOR	THE GENERAL RULE	COUNT IN ELECTROMECHANICAL DIGITAL-TO-AN	SEMPERATE AND PROPERTY OF THE PARTY OF THE P	TILL BIBRIAN TO SARAT MOTIONER BIBRAS PROBABLE DON DO SHEET DELLE	ANALOG-TO-DIGITAL (A/D)	ANALOG-TO-DIGITAL (A/D) CONVERTER	DO YOU PERFORM COMPARE .	TIME ANALOG-TO-DIGITAL (A/D)	THE THE PARTY OF T	DO YOU PERFORM DON'T REMEMBER MILL	ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER	-	CCAVERTERS	41:36 43-11 DO YOU USE OF HEYER TO HOLD FUNCTION OF A/O	CONSTRUCTION OF BEING OF BEING TO CONDITION OF STATE OF S	CONTRACTOR OF THE PROPERTY OF	SILISA SA-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/O	GILLES SELL DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-	SIGITAL (4/2) CONVENTERS

PCT MBRS RESPONDING "YES" AT SELECTED GAPS

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TASK GROUP SUMMANT SERENT REMERS PEFFURNING

PHANTASTRONS		SCHMITT TRIGGERS			CABLE FABRICATION			INPUT/OUTPUT DEVICES		STOTAGE LATER SECTION OF CHICA	PHOTO SENSITIVE DEVICES					SYNCHRONOIS VIRBATIONS	(CHOPPER CIRCIITS)	(citoria etacotta)									the state of the second		LAFDABED	O No.					
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This report summarizes the resul	ts of the administ	tration of the Electronic

Principles Inventory to airmen assigned to Electronic Warfare Countermeasures Specialty (AFSC 276X1). The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the specialty or career

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This specialty has the following functions:

Performs technical electronic warfare counter measures functions; and supervises electronic warfare countermeasures activities. Analyzes electronic warfare activities or abnormal external influences. Supervises electronic warfare countermeasures personnel.

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